

### **Amendments to the Claims:**

This listing of Claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

What is claimed is:

1. (Currently Amended) A method for processing video data, the method comprising:

receiving by a processor, a block of current video data in a first format, wherein the block of current video data in the first format is a portion of a current frame;

encoding by an encoder, the block of current video data using data stored in a second format;

storing in a memory new data in the second format, wherein the second format comprises chrominance and luminance data in an interleaved YCbCr 4:2:0 format, wherein a complete scan line of luminance data is followed by a complete scan line of chrominance data wherein the interleaved chrominance data repeats a line of Y data, then a line of Cb data then a line of Y data followed by a first line of Cr data or alternatively, a line of Y data, then a line of Cr data then a line of Y data followed by a first line of Cb data, and in which the chrominance and luminance data is stored in one continuous memory block; and

storing in the memory the encoded video data, wherein the stored data contains image data from a previous frame.

2. (Currently Amended) The method of Claim 1, wherein the stored data in the memory contains information about a previous frame.

3. – 4. (Canceled)

5. (Currently Amended) The method of Claim 1, wherein the stored data in the memory in the second format is a portion of a previously coded frame.

6. (Original) The method of Claim 1, wherein the second format has a lower resolution than the first format.

7. (Original) The method of Claim 6, wherein the second format comprises reduced chrominance information as compared to the first format.

8. (Canceled)

9. (Original) The method of Claim 4, wherein the first format comprises interleaved chrominance and luminance data.

10. (Original) The method of Claim 4, wherein the first format and the second format comprises interleaved chrominance and luminance data.

11. (Original) The method of Claim 1, wherein each block of a video frame comprises a predefined grouping of pixels.

12. (Currently Amended) The method of Claim 1, wherein encoding, by the encoder, the block of the current video data comprises compressing the block of the current video data.

13. (Currently Amended) The method of Claim 1, wherein encoding, by the encoder, the block of the current video data comprises comparing the block of the current video data to a corresponding block of another video data.

14. (Previously Presented) The method of Claim 13, wherein comparing the block of the current video data to a corresponding block of another video data is preceded by:

retrieving the corresponding block of the other video data in the second format.

15. (Currently Amended) The method of Claim 1, further comprising:  
transferring the new data in the second format to a memory location in the memory; and

storing the new data for encoding of a corresponding block of a subsequent video frame.

16. (Currently Amended) The method of Claim 15, further comprising:  
storing the encoded video data in a third format in a buffer; and  
transferring the buffered data to a memory location in the memory on completion of encoding the block.

17. (Currently Amended) The method of Claim 16, further comprising:  
transferring a portion of the block of video data from the buffer to the memory location in the memory if the buffer is full prior to encoding the entire block of video data.

18. (Currently Amended) The method of Claim 1, further comprising:  
transmitting by a transmitter, the encoded block of the current video data over a wireless communications link.

19. (Currently Amended) The method of Claim 1, wherein encoding by the encoder, the block of current video data using the data stored in the second format is preceded by converting a block of a data in the first format to the second format.

20. (Original) The method of Claim 1, wherein the block of current video data comprises a macroblock line of video data.

21. (Previously Presented) A communications device comprising:

a controller that is configured to receive a block of current video data in a first format, to encode the block of current video data using data stored in a second format, to store new data in the second format, wherein the second format comprises chrominance and luminance data in an interleaved YCbCr 4:2:0 format, wherein a complete scan line of luminance data is followed by a complete scan line of chrominance data wherein the interleaved chrominance data repeats a line of Y data, then a line of Cb data then a line of Y data followed by a first line of Cr data, or alternatively, a line of Y data, then a line of Cr data then a line of Y data followed by a first line of Cb data and in which the chrominance and luminance data is stored in one continuous memory block, and to store the encoded video; and

a transmitter that is configured to transmit the encoded video data.

22. (Original) The communications device of Claim 21, wherein the second format has a lower resolution than the first format.

23. (Canceled)

24. (Previously Presented) The communications device of Claim 21, wherein the controller encodes the block of the current video data by compressing the block of the current video data.

25. (Original) The communications device of Claim 21 further comprising:

a buffer that receives the video data; and

a memory location for storing encoded video data;

wherein the controller is further configured to transfer the new data in the second format from the buffer to the memory location, and to encode a corresponding block of a subsequent video frame using new data in the second format from the memory location.

26. (Original) The communications device of Claim 25, wherein the controller is further configured to transfer a portion of the block of video data from the buffer to the memory location if the buffer is full prior to encoding the entire block of video data.

27. (Currently Amended) A computer program product embodied on a computer readable medium adapted to be loaded into a memory and executed by a processor for processing video data, comprising:

~~a computer readable media having computer readable program code embodied therein, the computer readable program code comprising:~~

~~computer readable program code configured~~ instructions to receive by a processor, a block of current video data in a first format;

~~computer readable program code configured~~ instructions to encode by an encoder, the block of current video data using data stored in a second format, wherein the second format comprises chrominance and luminance data in an interleaved YCbCr 4:2:0 format, wherein a complete scan line of luminance data is followed by a complete scan line of chrominance data wherein the interleaved chrominance data repeats a line of Y data, then a line of Cb data then a line of Y data followed by a first line of Cr data, or alternatively, a line of Y data, then a line of Cr data then a line of Y data followed by a first line of Cb data and in which the chrominance and luminance data is stored in one continuous memory block;

~~computer readable program code configured~~ instructions to store new data in a memory in the second format; and

~~computer readable program code configured~~ instructions to store in the memory, the encoded video data.

28. (Currently Amended) The computer program product embodied on a computer readable medium adapted to be loaded into a memory and executed by a processor of Claim 27, wherein the second format has a lower resolution than the first format.

29. (Canceled)

30. (Currently Amended) The computer program product embodied on a computer readable medium adapted to be loaded into a memory and executed by a processor of Claim 27, wherein the ~~computer readable program code~~ instructions to encode the block of the current video data further comprises computer readable program code to compress the block of the current video data.

31. (Currently Amended) The computer program product embodied on a computer readable medium adapted to be loaded into a memory and executed by a processor of Claim 27 further comprising:

~~computer readable program code configured~~ instructions to transfer the new data in the second format from a buffer to a memory location in the memory;

~~computer readable program code configured~~ instructions to encode, by the encoder a corresponding block of a subsequent video frame using the new data in the second format in the memory location.

32. (Currently Amended) The computer program product embodied on a computer readable medium adapted to be loaded into a memory and executed by a processor of Claim 31, further comprising ~~computer readable program code configured~~ instructions configured to transfer a portion of the block of video data from the buffer to the memory location in the memory if the buffer is full prior to encoding, by the encoder the entire block of video data.

33. (Previously Presented) A system for processing video data, the system comprising:

means for receiving a block of current video data in a first format;

means for encoding the block of current video data using data stored in a second format;

means for storing new data in the second format, wherein the second format comprises chrominance and luminance data in an interleaved YCbCr 4:2:0 format, wherein a complete scan line of luminance data is followed by a complete scan line of chrominance data wherein the interleaved chrominance data repeats a line of Y data, then a line of Cb data then a line of Y data followed by a first line of Cr data, or alternatively, a line of Y data, then a line of Cr data then a line of Y data followed by a first line of Cb data and in which the chrominance and luminance data is stored in one continuous memory block; and

means for storing the encoded video data.

34. (Original) The system of Claim 33, wherein the second format has a lower resolution than the first format.

35. (Canceled)

36. (Previously Presented) The system of Claim 33, wherein the means for encoding further comprises means for compressing the block of the current video data.

37. (Original) The system of Claim 33, further comprising:  
means for transferring the new data in the second format from a buffer to a memory location;  
means for encoding a corresponding block of a subsequent video frame using the new data in the second format in the memory location.

38. (Original) The system of Claim 33, further comprising means for transferring a portion of the block of video data from the buffer to the memory location if the buffer is full prior to encoding the entire block of video data.